

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09617

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> A61K31/352, 31/375, A61P9/00, 43/00, C07D311/62, A23L1/30, 1/302, 2/00, A23F3/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> A61K31/352, 31/375, A61P9/00, 43/00, C07D311/62, A23L1/30, 1/302, 2/00, A23F3/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAPLUS (STN), CAOLD (STN), REGISTRY (STN), JICST (JOIS)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 694305 A1 (INDENA S.p.A.), 31 January, 1996 (31.01.96), Full text & JP 8-59463 A Full text & AU 9527180 A & US 5665365 A	1, 2, 4 3
X Y	Satoshi TAKAGAKI, "Icho Ha Extract no Tokusei to Riyo", New Food Industry, 1998, Vol.40, No.5, pages 1 to 7	1, 2 3

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 16 October, 2003 (16.10.03)	Date of mailing of the international search report 11 November, 2003 (11.11.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

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## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 1013278 A1 (JI, Ling), 28 June, 2000 (28.06.00), Full text & JP 2001-508777 A Full text & AU 9715884 A & CN 1245433 A & KR 2001049156 A & US 6329000 B1 & WO 98/32455 A1	1,2 3
X Y	EP 1086693 A1 (KYOWA HAKKO KOGYO CO., LTD.), 28 March, 2001 (28.03.01), Full text & JP 2001-158739 A Full text & AU 200059478 A & CN 1288688 A & KR 2001076199 A	5-7,9 3
X Y	EP 1135995 A2 (KYOWA HAKKO KOGYO CO., LTD.), 26 September, 2001 (26.09.01), Full text & JP 2001-270881 A Full text & AU 200129820 A & CN 1321444 A & KR 2001100837 A & US 2001/036487 A1	5-7,9 3
X	EP 713706 A2 (SUNTORY LTD.), 29 May, 1996 (29.05.96), Full text; particularly, example 9 JP 8-225453 A Full text; particularly, example 9 & US 5607965 A & FI 9505691 A & NO 9504834 A	5-9
X	JP 2002-29953 A (Sunstar Inc.), 29 January, 2002 (29.01.02), Full text; particularly, example 8 (Family: none)	5-7,9
X	EP 815857 A1 (SUNTORY LTD.), 07 January, 1998 (07.01.98), Full text; particularly, example 7 & JP 9-291039 A Full text; particularly, example 7 & US 6294190 B1 & WO 97/23210 A1 & KR 98702533 A	5-7,9
A	SHUMEJKO, Pavel et al., THE EFFECT OF SIMULATED ACID RAIN ON THE BIOCHEMICAL COMPOSITION OF SCOTS PINE (PINUS SYLVESTRISL.), NEEDLES, Environmental Pollution, 1996, Vol.92, No.3, pages 315 to 321	1-9

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NYMAN, Bengt F., PROTEIN-PROANTHOCYANIDIN INTERACTIONS DURING EXTRACTION OF SCOTS PINE NEEDLES, Phytochemistry, 1985, Vol.24, No.12, pages 2939 to 2944	1-9
A	SANTOS-BUELGA, CELESTINO et al., Proanthocyanidins and tannin-like compounds-nature, occurrence, dietary intake and effects on nutrition and health, J.Sci.Food Agric., 2000, Vol.80, pages 1094 to 1117	1-9
A	EP 1208755 A1 (Meiji Seika Kaisha, Ltd.), 29 May, 2002 (29.05.02), Full text & WO 01/001798 A1 & AU 200057068 A & KR 2002019481 A	1-9
P, X	JP 2003-95968 A (Nobuyoshi TANAKA), 03 April, 2003 (03.04.03), Full text (Family: none)	1-3
P, X	JP 2003-128560 A (Kikkoman Corp.), 08 May, 2003 (08.05.03), Full text (Family: none)	1, 2
P, X	JP 2003-284525 A (Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo), 07 October, 2003 (07.10.03), Full text; particularly, example 4 (Family: none)	5-7, 9

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## Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Claims 1 to 4 and 9 relate to a composition improving the fluidity of blood which contains proanthocyanidine as the active ingredient.

Claims 5 to 8 relate to a drink which contains proanthocyanidine and ascorbic acid or its derivative.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.